

M 6.6, 14km E of Bual, Philippines

Origin Time: 2019-10-29 01:04:44 UTC (Tue 09:04:44 local)

Location: 6.8016° N 125.0401° E Depth: 15.3 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

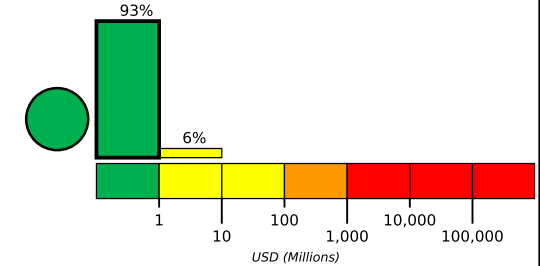
Created: 26 minutes, 17 seconds after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

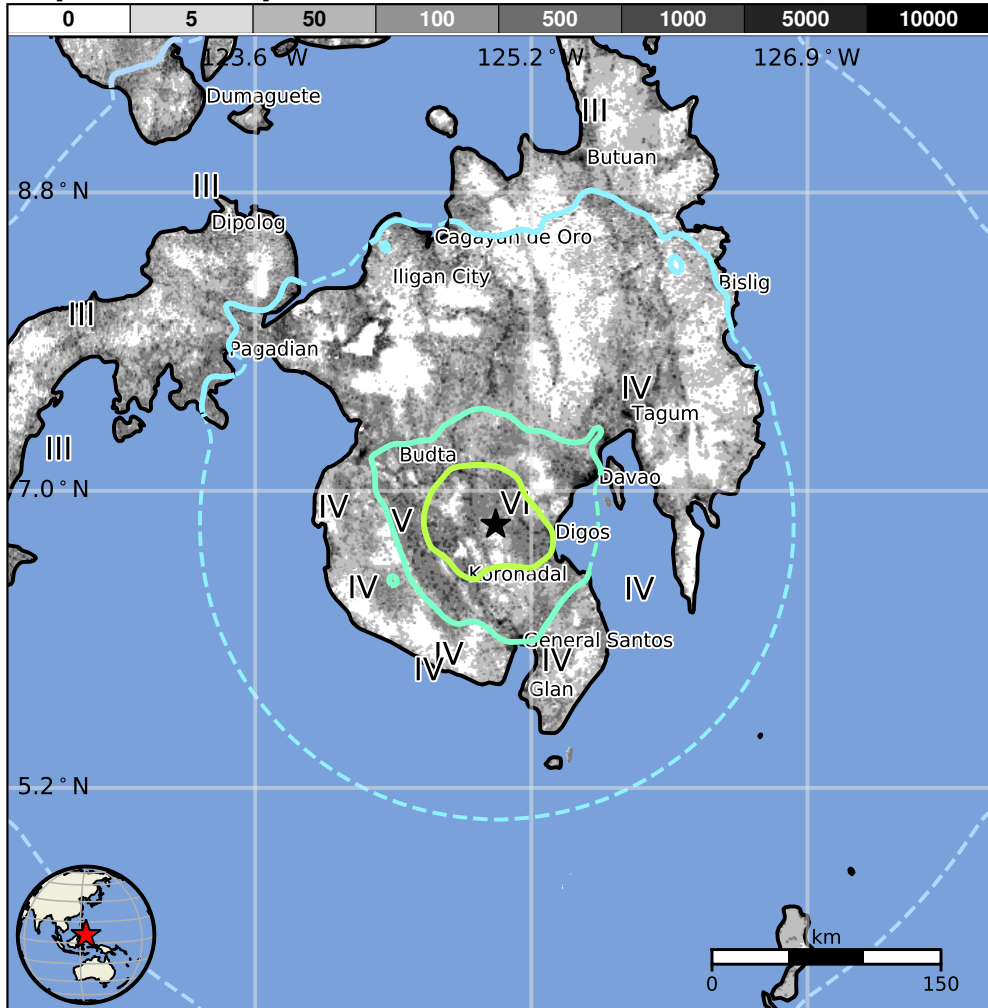


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 6,357k* | 11,229k | 4,975k | 1,909k | 35k | 0 | 0 | 0 |
|---|-----------------------|----------|---------|---------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1987-05-23 | 144 | 5.7 | VII(70k) | 1 |
| 1990-02-08 | 332 | 6.7 | VIII(96k) | 1 |
| 2002-03-05 | 126 | 7.5 | VIII(12k) | 15 |

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|----------------|------------|
| VI | Bual | 5k |
| VI | Bagontapay | 7k |
| VI | Magsaysay | 17k |
| VI | Columbio | 6k |
| VI | Minapan | 3k |
| VI | Tulunan | 10k |
| V | Davao | 1,213k |
| IV | Cotabato | 179k |
| IV | Cagayan de Oro | 445k |
| IV | Butuan | 310k |
| III | Pagadian | 187k |

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000645n#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000645n